

E' 32. (Amended) The cell of claim 49 [31], wherein said peripheral tissue comprises olfactory epithelium.

sub 31 33. (Amended) The cell of claim 49 [31], wherein said peripheral tissue comprises tongue.

Q 28 sub 62 38. (Amended) The [precursor] cell of claim 49 [31], wherein said cell expresses nestin.

Q 3 sub 63 41. (Amended) The [precursor] cell of claim 49 [31], said cell transfected with a heterologous gene.

Q 4 sub 65 43. (Amended) A mitotic cell that is the progeny of the cell of claim 49 [a precursor cell isolated from a peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor].

44. (Amended) A differentiated cell that is the progeny of the cell of claim 49 [a precursor cell isolated from a peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor].

Q 5 46. (Amended) A pharmaceutical composition comprising a mitotic or differentiated cell that is the progeny of a neural stem [precursor] cell isolated from a

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peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor, and a pharmaceutically acceptable carrier, auxiliary or excipient.

47. (Amended) A pharmaceutical composition comprising a neural stem [precursor] cell isolated from a peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor, and a pharmaceutically acceptable carrier, auxiliary or excipient.

Kindly add new claim 49.

49. A neural stem cell in the central nervous system of a mammal, said neural stem cell produced by a method comprising the steps of:

- (a) providing a culture of peripheral tissue containing sensory receptors from said mammal;
- (b) isolating a neural stem cell from said peripheral tissue, said neural stem cell capable of producing neurons and glia; and
- (d) transplanting said neural stem cell into the central nervous system of said mammal.